

Undergraduate Histology Technician Courses

HLAB 100. Research Histotechnology Wrksh. 2 Credit Hours (Lecture: 0 Hours, Lab: 0 Hours).

HLAB 2182. Introduction to Medical Laboratory Sciences. 1 Credit Hour (Lecture: 1 Hour, Lab: 1 Hour).

An introductory course in medical laboratory science. Universal lab safety practices, computer applications for science and medicine, basic lab mathematics, quality control and basic laboratory equipment including microscopy, centrifugation, analytical weighing and other laboratory equipment common to all medical laboratories. This course must be taken during the first semester of enrollment in the HT/MLT certification programs. Lab Fee: \$2.

HLAB 2285. Capstone Cases and Review. 2 Credit Hours (Lecture: 2 Hours, Lab: 2 Hours).

Major theoretical and practical applications in histotechnology including preparation of staining portfolio, mock registry exam (program final) and attendance at pathologist case presentations. This course must be taken during the final semester of enrollment in the HT program. Lab Fee \$2.

HLAB 2335. Histotechnology III. 3 Credit Hours (Lecture: 1 Hour, Lab: 6 Hours).

Histotechniques: Special Staining; Theory and practice of histochemical staining techniques, including microorganism, tissue pigments, minerals, and neural tissue staining. Includes specialized techniques such as electron microscopy, immunohistochemistry, and muscle enzyme histochemistry. Lab Fee \$2.

HLAB 2364. Immunohistochemistry and Molecular Techniques. 3 Credit Hours (Lecture: 3 Hours, Lab: 3 Hours).

This course covers the preparation and evaluation of immunohistochemistry (IHC) stains. Procedures and terminology related to IHC are also discussed and strategies for troubleshooting problems are presented. Molecular techniques such as ISH and genetic profiling are also introduced. Lab fee: \$2.

HLAB 2414. Introduction to Histotechnology. 4 Credit Hours (Lecture: 3 Hours, Lab: 3 Hours).

Introduction to the healthcare environment and histology laboratory with emphasis on safety; infection control; mathematics; communication; medical terminology and ethical, legal and professional issues. Lab Fee \$2.

HLAB 2415. Histotechnology I. 4 Credit Hours (Lecture: 2 Hours, Lab: 6 Hours).

Histotechniques: Tissue Processing; Introduction to basic theories and practices of histotechnology including laboratory safety, fixation, tissue processing, embedding, microtomy, routine staining and operation and maintenance of lab equipment. Lab Fee \$2.

HLAB 2425. Histotechnology II. 4 Credit Hours (Lecture: 2 Hours, Lab: 6 Hours).

Histotechniques: Theory and practice of histochemical staining techniques. Topics include reagent preparation, basic tissue dye bonding, differentiation, quality control, nuclear, connective tissue and carbohydrate staining techniques. Lab Fee \$2.

HLAB 2460. Functional Histology. 4 Credit Hours (Lecture: 4 Hours, Lab: 4 Hours).

Emphasizes the recognition, composition, and function of cells, cellular organelles, cell life cycles, blood and basic tissue types. This course also emphasizes the recognition, composition and function of organ systems including skeletal, nervous, circulatory, endocrine and reproductive system tissues. Lab fee: \$2.

HLAB 2495. Clinical Histotechnology I. 4 Credit Hours (Lecture: 0 Hours, Lab: 15 Hours).

An introductory histology laboratory-based learning experience that enables students to observe and apply theory, skills, and concepts. Direct supervision is provided by the clinical professional. This course must be taken during the first semester of the HT program. Field Assignment Fee: \$50.

HLAB 2496. Clinical Histotechnology II. 4 Credit Hours (Lecture: 0 Hours, Lab: 15 Hours).

An intermediate histology laboratory-based learning experience that enables students to apply theory, skills, and concepts. Direct supervision is provided by the clinical professional. Course must be taken during the second semester of the HT program. Field Assignment Fee: \$50 Prerequisite: HLAB 2495.

HLAB 2497. Clinical Histotechnology III. 4 Credit Hours (Lecture: 0 Hours, Lab: 15 Hours).

An advanced histology laboratory based learning experience that enables students to apply and integrate theory, skills, and concepts and to work independently. Direct supervision is provided by the clinical professional. This course must be taken during the last semester in the HT program. Prerequisites: HLAB 2495, HLAB 2496; Field Assignment Fee: \$50.